

Amendments to the Claims

Prior to substantive examination, Applicants have amended claims 2-16 and 18-28 without any intention of disclaiming equivalents thereof, and cancelled claims 17 and 29-32 without prejudice to their subsequent reintroduction into this application or their introduction into a related application. The following list of claims replaces all prior versions and lists of claims in the application.

List of Claims

1. (Original) A primer designed for use with mRNA comprising a 5' sequence based on a 5' consensus region of the mRNA and a 3' sequence capable of hybridising to a 3' region of the mRNA.
2. (Currently Amended) ~~A~~ The primer according to claim 1, wherein the primer 5' sequence comprises ~~a~~ sequence identical or similar to ~~a~~ sequence of the mRNA 5' consensus region.
3. (Currently Amended) ~~A~~ The primer according to claim 1 ~~or 2~~, wherein the primer 3' sequence comprises ~~a~~ sequence complementary to the mRNA 3' region.
4. (Currently Amended) A method for generating a cDNA molecule ~~which comprises comprising reverse transcription of transcribing~~ mRNA using ~~a~~ an RT primer ~~according to any of~~ claims 1 to 3 ~~comprising a 5' sequence based on a 5' consensus region of the mRNA and a 3' sequence capable of hybridising to a 3' region of a mRNA.~~
5. (Currently Amended) A method for recovery of cDNA ~~which comprises comprising:~~ generating cDNA ~~using a method of~~ claim 4
 - (a) ~~reverse transcribing mRNA using an RT primer comprising a 5' sequence based on a 5' consensus region of the mRNA and a 3' sequence capable of hybridising to a 3' region of the mRNA, whereby cDNA is generated;~~[[,]] and
 - (b) ~~amplifying by PCR amplification of the cDNA using a single primer type.~~
6. (Currently Amended) ~~A~~ The method according to claim 5, wherein the single primer ~~type~~ comprises a 5' sequence based on the mRNA 5' consensus region.

7. (Currently Amended) A kit ~~for a method according to claim 5, which comprises comprising~~ a supply of primer ~~according to any of claims 1 to 3, comprising a 5' sequence based on a 5' consensus region of an mRNA and a 3' sequence capable of hybridising to a 3' region of the mRNA~~ and one or more ~~of items selected from the group consisting of~~ a supply of dNTP, a supply of reverse transcriptase, a supply of ribonuclease inhibitor, buffer, ~~and~~ RNase-free water.

8. (Currently Amended) A ~~The kit for a method according to claim 6, which comprises a kit~~ according to claim 7, ~~supplemented with further comprising~~ one or more PCR components such as ~~selected from the group consisting of~~ DNA polymerase, PCR buffer, ~~one or more PCR primer (s) primers~~, and dNTPs.

9. (Currently Amended) A method for recovery of cDNA from mRNA, said method comprising:

(a) reverse transcription (RT) of transcribing mRNA using a ~~an~~ RT primer which includes comprising a sequence identical or similar to ~~the~~ a 5' consensus region of the mRNA and which includes comprising a sequence capable of hybridising specifically to ~~the~~ a 3' region of the mRNA, followed by, whereby cDNA is generated; and

(b) amplifying by polymerase chain reaction (PCR) the cDNA using a single primer type to amplify the cDNA.

10. (Currently Amended) A ~~The~~ method according to claim 9, wherein in step (b) the cDNA is present as a mixture of molecules or as a single molecule.

11. (Currently Amended) A ~~The~~ method according to claim 10, wherein the mRNA is at least partially denatured before the RT reaction step (a), preferably optionally by heat treatment or a chemical method.

12. (Currently Amended) A method for recovery of DNA fragments from mRNA, said method comprising:

(a) heating a sample comprising ~~an~~ mRNA; , followed by,

(b) reverse transcribing the mRNA using an RT using a primer which includes comprising a sequence identical to or similar to the a sequence at the a 5' consensus region of the mRNA, followed by, whereby single stranded cDNA is generated; and

(c) amplifying by PCR the single stranded cDNA using a single primer type to amplify the ss cDNA obtained in step (b).

13. (Currently Amended) A The method according to claim 12, wherein in step (c) the ss single stranded cDNA is present as a mixture of molecules or as a single molecule.

14. (Currently Amended) A The method according to any one of claims 9 to 13 claim 12, wherein the RT primer used is comprises an oligonucleotide or mixture of oligonucleotides in which a 3' sequence is complementary capable of hybridizing to a 3' region of the template mRNA and in which the 5' sequence comprises sequence identical or similar to the 5' consensus region of the mRNA.

15. (Currently Amended) A The method according to any one of claims 9 to 14 claim 9 or 14, wherein the RT primer used is an oligonucleotide or mixture of oligonucleotides in which a comprises a 3' sequence that is complementary to a 3' region of the template mRNA which may optionally include part of the a poly A tail, and in which the 5' primer region has a sequence similar or identical to the 5' region of the mRNA.

16. (Currently Amended) A The method according to any one of claims 9 to 15 claim 9 or 14, wherein[[,]] the RT primer comprises a 5' region comprising one or more sequences used is an oligonucleotide or mixture of oligonucleotides in which a 3' primer region is complementary to a 3' region of the template mRNA and in which the 5' primer region has a sequence similar or identical to a 5' region of the mRNA including the sequence for one or more of selected from the group consisting of a transcriptional start site, a regulatory elements element, a kozak sequence, a translational start codon, any part of the a translated sequence, or and any family specific consensus sequence found in the 5' region.

17. (Cancelled)

18. (Currently Amended) A The method according to any one of claims 9 to 17 claim 9 or 12, wherein the single primer type used for PCR is identical to, overlapping with, or similar to, the 5' sequence of the RT primer used.

19. (Currently Amended) A method for RT-PCR recovery of cDNA from mRNA in ribosome display complexes, said method comprising:

- (a) reverse transcribing mRNA using a an RT primer comprising a 5' sequence which is similar or identical to the a 5' consensus region of the mRNA and comprising a 3' primer region sequence complementary to a 3' region of the mRNA, followed by, whereby single stranded cDNA is generated; and
- (b) amplifying by PCR the single stranded cDNA using a single primer type to amplify the ss cDNA obtained in (b).

20. (Currently Amended) A The method according to claim 19 wherein in step (b), the ss-DNA single stranded cDNA is present as a mixture or a single molecule.

21. A The method according to claim 19 or claim 20, wherein the ribosome display complexes are treated before RT step (a) to make mRNA accessible to one or more primer(s) primers, preferably optionally by at least one of heating and/or by a chemical method.

22. (Currently Amended) A method for recovery of DNA fragments from mRNA in ribosome display complexes, said method comprising:

- (a) heating of ribosome complexes, followed by,
- (b) reverse transcribing mRNA using an RT using a primer which includes comprising a sequence identical to or similar to the a sequence at the a 5' consensus region of the mRNA, followed by, whereby single stranded cDNA is generated; and
- (c) amplifying by PCR the single stranded cDNA using a single primer type to amplify the ss cDNA obtained in (b).

23. (Currently Amended) A The method according to claim 22 wherein in step (c) the ss single stranded cDNA is present as a mixture or a single molecule.

24. (Currently Amended) A The method according to ~~any one of claims 19 to 23~~ claim 19 or 22, wherein the ribosome display complex is an antibody-ribosome-mRNA complex.

25. (Currently Amended) A The method according to ~~any one of claims 19 to 24~~ claim 19 or 22, wherein ~~the 5' sequence of the RT primer is a sequence that is similar to or identical to the 5' consensus region of the mRNA, including the sequence of~~ comprises a 5' region comprising one or more sequences selected from ~~of the group consisting of~~ a transcriptional start site, a regulatory elements element, a kozak sequence, a translational start codon, any part of ~~the a~~ translated sequence, and ~~or~~ any family specific consensus sequence found in the 5' region.

26. (Currently Amended) A The method according to ~~any one of claims 19 to 25~~ claim 19 or 22, wherein the single primer type used for PCR is identical to, overlapping with, or similar to, the 5' sequence of the RT primer used ~~for the RT reaction step~~.

27. (Currently Amended) A The method or kit according to any one of claims ~~4 to 26~~ 4, 5, 7, 9, 12, 19, or 22, wherein the RT primer used ~~for reverse transcription~~ RT ~~is~~ comprises HuRT (SEQ ID NO: 3).

28. (Currently Amended) A The method or kit according to any one of claims ~~4 to 27~~ 4, 5, 7, 9, 12, 19, or 22, wherein the single primer type used for PCR is comprises Kz1 (SEQ ID NO: 1).

29-32. (Cancelled)